FLUKE® 175 // DIGITAL MULTIMETER

FLUKE **175**

Battery life: 200 hours typical (alkaline)
Size (HxWxD): 190 x 85 x 45 mm
Weight: 0,42 kg
Warranty: lifetime

Lifetime Warranty! Keep your Fluke meter up and running

CAT III 1000V CAT IV 600V
On all inputs

True RMS

LISTED

Versatile meters for field service or bench repair

These meters have the features needed to find most electrical, electromechanical and heating and ventilation problems.

They are simple to use and have significant improvements over Fluke's original 70 Series like True RMS, more measurement functions, conformance to the latest safety standards, and a much larger display that is easier to view.

FEATURES

True RMS measurements	AC
Digital display counts, updates 4 times per second	6000
Analog bargraph/33 segments, updates 40 times per second	√
Auto and manual ranging	√
Display hold and AutoHOLD®	√
Min-Max-Average recording mode with Min/Max Alert	√
Smoothing mode allows filtering of rapidly changing inputs	√
Audible continuity and diode test	√
Test lead alert	√
Unsafe voltage alert warns for voltages above 30 V	√
Low battery indication	√
Ergonomic case with integrated holster	√
Easy battery and fuse exchange without opening the complete case	√
Selectable sleep mode preserves battery life	√

INCLUDED ACCESSORIES

Test leads with 4 mm lantern tips, installed 9 V battery and user's manual.

RECOMMENDED ACCESSORIES

C90
REF 131TA8448

i1010
REF 131TA8445

TLK220 EUR
REF 134TA8375

SPECIFICATIONS

Functions	Maximum range	Maximum resolution	Accuracy
Voltage DC	1000 V	0,1 mV	±(0,15%+2)
Voltage AC	1000 V	0,1 mV	±(1,0%+3)
Current DC	10 A	0,01 mA	±(1,0%+3)
Current AC	10 A	0,01 mA	±(1,5%+3)
Resistance	50 MΩ	0,1 Ω	±(0,9%+1)
Capacitance	10000 µF	1 nF	±(1,2%+2)
Frequency	100 kHz	0,01 Hz	±(0,1%+1)
Temperature	-40 °C/400 °C	0,1 °C	-

Accuracies are best accuracies for each function.

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FLUKE® VT02 - VT04 // VISUAL IR-THERMOMETER

See beyond temperature!

The VT02 is as convenient as a spot thermometer, is insightful as a thermal imager, with the visual context of a digital camera. He combines the convenience of a spot thermometer with the visual advantage of a thermal imager creating a brand new tool category - a troubleshooting camera with infrared heat map.

You can detect and capture issues instantaneously with digital and thermal blended images, pinpoint hot and cold spots with temperature markers, and document problems efficiently with SmartView® professional reporting software!

The VT02 is the missing link - the ultimate in between tool for those times when a single spot temperature reading isn't enough and a high-resolution thermal image is more than you need, or can afford.

FLUKE **VT02**

Battery life: 8 hours
Size (HxWxD): 210 x 75 x 55 mm
Weight: 0,3 kg
Warranty: 2 years

Designed to see it all.

The Fluke VT04 is the most powerful addition to the groundbreaking Fluke Visual IR Thermometer family. The VT04 features PyroBlend™ Plus technology that delivers 4x sharper images than the VT02 for enhanced problem detection, best-in-class field of view for tight spaces, and powerful automatic monitoring features that detect stubborn, intermittent issues.

FLUKE **VT04**

Battery life: 8 hours
Size (HxWxD): 210 x 75 x 55 mm
Weight: 0,3 kg
Warranty: 2 years

INCLUDED ACCESSORIES

Hard case, hand strap, mini SD card and adapter, SmartView® software on CD, lithium ion batteries and micro USB charger/power supply (including mains adapters) (VT04) or 4 AA batteries (VT02), printed Quick Start Guide in English, Spanish, German, French and Simplified Chinese Simplified, others on CD. User's manual on CD (21 languages).

RECOMMENDED ACCESSORIES

VT04-BATTERY
REF 141TA7681
Extra rechargeable battery for VT04

VT04-CHARGER
REF 141TA7683
Extra charger and adapters for VT04

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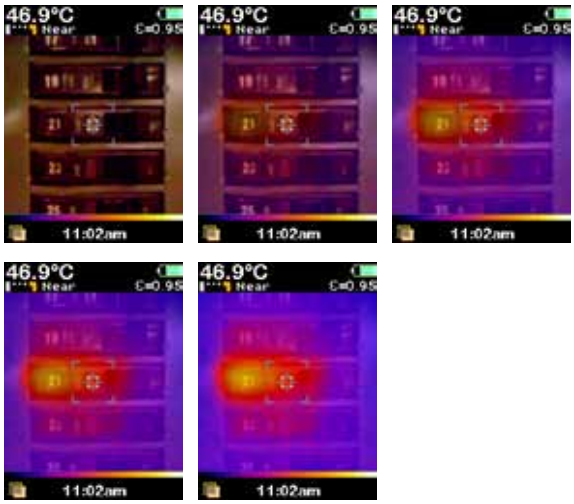
Key features of a Visual IR Thermometer

Breakthrough affordability
Half the cost of infrared cameras that require training and software.

Built-in digital camera
Every Fluke Visual IR Thermometer has a built-in digital camera.

Exclusive thermal heat map blending overlay
Blend digital and thermal images to instantly show the exact location of the issue. Blend between 0 %, 25 %, 50 %, 75 %, and Full Thermal with one button.



No training required
Fully automatic with built-in intelligence.

True pocket size design
Forty percent smaller than entry-level infrared cameras.

SmartView® reporting software
Store up to 10 000 images per Gb on included SD card and make professional reports on included professional software.

Hot and cold spot trackers
Automatically identifies hottest and coldest spots within field of view. When you see a hot or cold spot, you can save the image with the temperature reading and pinpoint the exact location using the blending between full thermal to full visual.

NEAR/FAR feature
The NEAR/FAR is exclusive to Fluke Visual IR Thermometers and allows the user to take simultaneous visual images with the thermal heat map images that are accurately aligned close in, ≤ 23 cm, with the NEAR feature, as well as beyond with the FAR feature. No other product can boast this NEAR visual and thermal heat map alignment feature that allows you to get close-in and document the exact location of the issue.

The Fluke VT04 adds powerful features that include:

Powerful resolution with PyroBlend™ Plus optics
- Best-in-class field of view for tight spaces: 28° x 28°
- Four times sharper images: VT04 compared to VT02

Alarm and time lapse features
- Hi/Lo temperature alarm - Screen flashes if user-selected temperature is exceeded.
- Time lapse image capture - automatically capture images.
- Auto-monitor™ alarm - automatically capture images after a userselected temperature alarm has been triggered.

COMBO KIT - REF 141TA7682

VT04E-KIT
VT04 Electrical Combo Kit

- Fluke VT04 Visual IR Thermometer
- Fluke 376 Clamp meter
- Fluke 117 Digital Multimeter

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VT02 - VT04 // VISUAL IR-THERMOMETER

SPECIFICATIONS

	VT02	VT04
Temperature		
Temperature measurement range	-10 °C to 250 °C	
Temperature measurement accuracy	+/- 2 °C or +/- 2 %	
On-screen emissivity correction	Yes	
On-screen reflected background temperature compensation	Yes	
Hi-Lo temperature alarms	No	Yes
Image performance		
Built-in digital camera	Yes	
Image capture frequency	8 Hz	
Detector type	Uncooled pyroelectric ceramic	
Infrared spectral band	6,5 µm to 14 µm	
Field of view	20° x 20°	28° x 28°
Focus mechanism	Fixed focus	
Image presentation		
View options	Blending of the visual and the infrared from full infrared to full visual in 25 % steps	
Focus options - exclusive user	NEAR > 23 cm / FAR < 23 cm	
Palettes	Ironbow, Rainbow, Rainbow High Contrast, Grayscale (white hot) and Grayscale (Black hot)	Ironbow, Rainbow, Rainbow High Contrast, Grayscale (white hot),Grayscale (Black hot) and Hot Metal
Image optics system	PyroBlend™ optic	PyroBlend™ Plus optic 4x sharper image than VT02
Level and span	Auto	
Hot Spot and Cold Spot tracking	Yes	
Image capture and data storage		
Time-lapse image capture	No	Yes
Auto-monitor alarm	No	Yes
Image capture	Image will freeze allowing review before saving	
Storage medium	Micro SD card stores up to 10 000 images	
Memory review	Scroll through all saved images and view on-screen	
General		
Battery type	4 AA batteries	Li-Ion rechargeable
Power saving	Power down after 10 minutes of inactivity	
Training	No training required	
Ergonomics	Slim pocket-sized design	
Software	SmartView® analysis and reporting software, included	

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FLUKE® T90 // VOLTAGE AND CONTINUITY TESTER

Rugged, high-quality tester for fast test results the way you need them.

Fluke's two-pole voltage and continuity testers are built to work the way you work. They give you the best combination of safety, ease-of-use and fast answers available anywhere.

FEATURES

Backlit LED indicator	√
Continuity test - visual and audible results	√
Voltage test	√
Indication of polarity	√
Single pole test for phase detection	√
Probe tip protection	√
Voltage display with discharged batteries	√
WearGuard™ insulation shows damage to test leads	√

SPECIFICATIONS

Voltage AC/DC	12 V - 690 V
Continuity	0 - 400 kΩ
Frequency	0 - 60 Hz
Response time	< 0,1 s
200 kΩ input impedance	Current draw 3,5 mA @ 690 V Current draw 1,15 mA @ 230 V
Safety rating	CAT II 690 V – CAT III 600 V

INCLUDED ACCESSORIES

2 AA batteries and instruction sheet

FLUKE T90

Size (HxWxD): 230 x 65 x 38 mm
Weight: 0,18 kg
Warranty: 2 years

Soft case

Zippered carrying case with inside pocket and belt loop.

C90

Size (HxWxD): 205 x 90 x 72 mm

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All sales are subject to the general terms & conditions of sale on www.tvh.com/avv

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